User Guide
BIMWIZARD® for Autodesk® Revit®
Australia

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Version 5.00

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Document Revisions

Date	Version Number	Document Changes
25/03/2016	0.01	Initial Draft
05/05/2016	0.10	Final Draft
06/05/2016	1.00	Publication
08/11/2018	2.00	Addition of new features
28/07/2020	3.00	Addition of new features
29/03/2023	4.00	Addition of new features
01/10/2025	5.00	Market update

What's New In This Revision?

New Products	BIM Wizard has been updated to include Knauf's new range of high performance plasterboards. Engineered to combine multiple properties and uses so you can work smarter and streamline your projects, the new all-in-one boards for walls and ceilings are Australian made, GECA certified and have verified EPDs.

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1 Introduction

1.1 Scope and Purpose

Welcome to the User Guide for Knauf's Autodesk® Revit® Add-in, BIMWIZARD®! This guide will help you navigate the multiple areas and functions of this application as well as understand the ways it may save you time and reduce design risk.

The BIMWIZARD® application is a powerful tool that streamlines the process of selecting, designing and creating the correct Knauf wall or ceiling system for your project requirements. BIMWIZARD® will recommend Knauf solutions based on your specifications and seamlessly add your selection to the family library without having to leave the Revit environment.

Key benefits of incorporating BIMWIZARD® into your workflow include:

- An easy to use, intuitive interface
- Access to 100,000+ Knauf data-rich models representing our full product catalogue
- Ability to sort by system performance, product attributes and physical dimensions
- Save hours of design time and anxiety by using our pre-qualified design solutions
- Automatically self-updates to ensure you have our latest database
- All content compliant with Australia New Zealand Revit Standards (ANZRS)

This guide assumes that the user has access to and a base knowledge of Revit software.

1.2 Other BIMWIZARD® Versions

BIMWIZARD® is now available in multiple countries for various BIM platforms. This manual is specifically for the Australian Revit® version. Please use the alternate links on the download page for other BIM platforms. If you are outside Australia, navigate to your country via Knauf's international web page www.knauf.com.

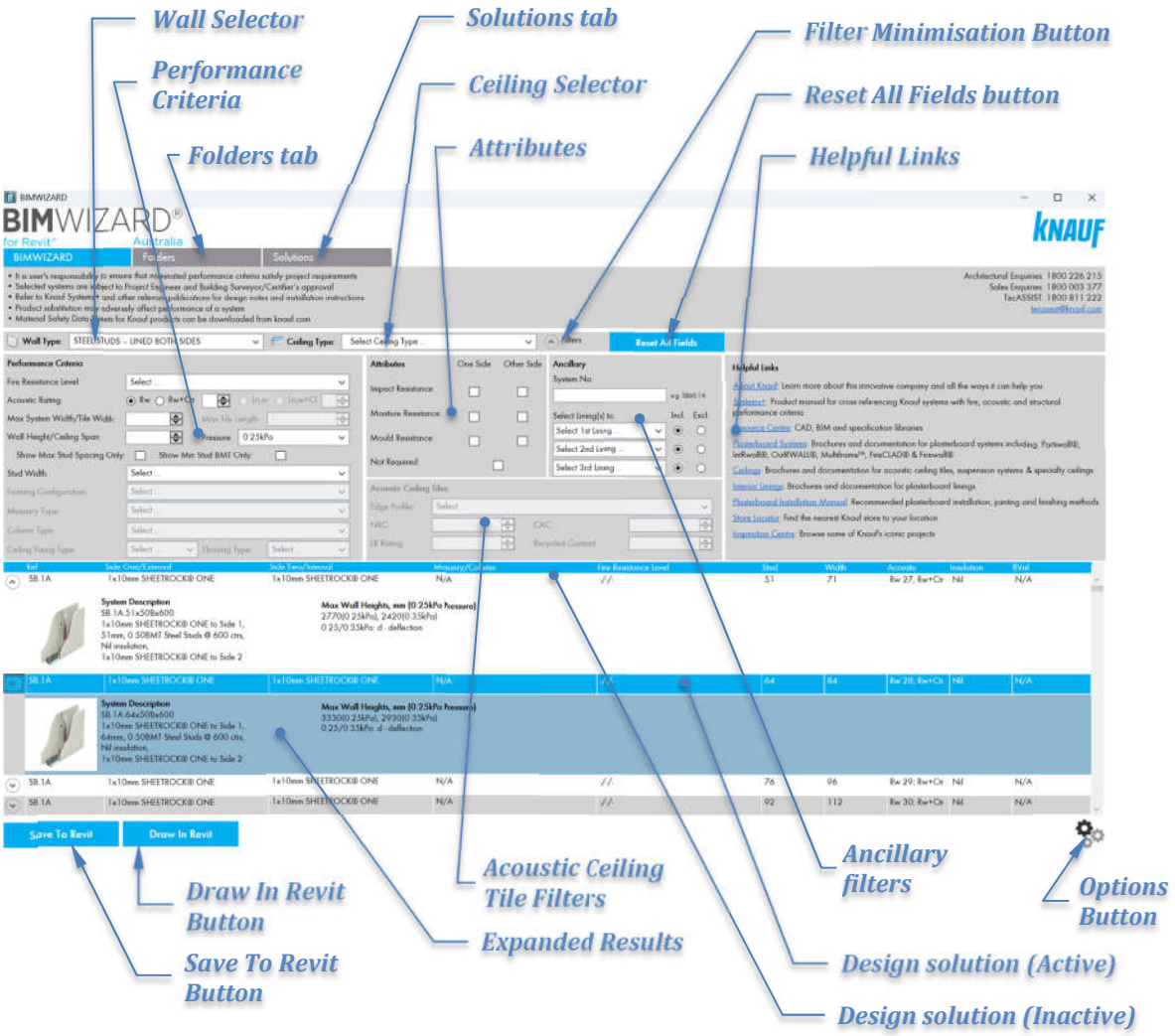
1.3 Installation

Download and open the installer file named 'KnaufBimWizard.msi' and follow the steps on the installation wizard. Upon completion, the BIMWIZARD® Add-in will be installed and available on the 'Add-ins' ribbon the next time Revit is opened.

NOTE: Upon download you may receive a warning message since the installer is an executable file type. These warnings can safely be dismissed.

1.4 Interface Layout

The below image is a typical screen shot from the BIMWIZARD® Add-in home page with labels of commonly referenced areas/features added.



2 System Selection Work Flow

The general work flow for finding the wall or ceiling system best suited to your needs and importing it into your Revit® family library is as follows:

Step 1: Select wall/ceiling type

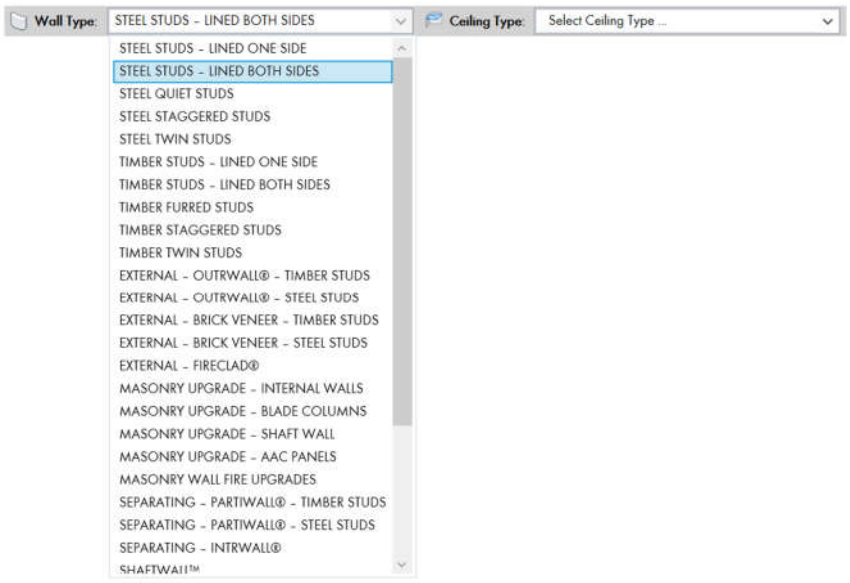
Step 2: Filtering (select performance criteria, lining attributes and miscellaneous options)

Step 3: Browse results and select desired system

Step 4: Export system information to Revit project

2.1 Select Wall/Ceiling Type

When BIMWIZARD® first opens, only the wall and ceiling selectors are visible and active. Selecting from one of these menus starts the filtering process.



Tips:

- Only one wall or one ceiling type can be selected at a time and all results will belong to the current system type.
- Some systems that aren't technically walls are found in the wall type menu, such as:
  - Fireclad® external cladding
  - Column protection systems.
- Some systems with both vertical and horizontal elements appear in both menus, such as:
  - Beam protection systems
  - Fire Tunnel™

2.2 Filtering

To find the system best suited to your project's requirements, utilise the various filter options available below the system selectors. Please note some of the filters will be grey and inactive depending on which system type was selected. This is because those filters are not applicable or not needed for the current system type.

Tips:

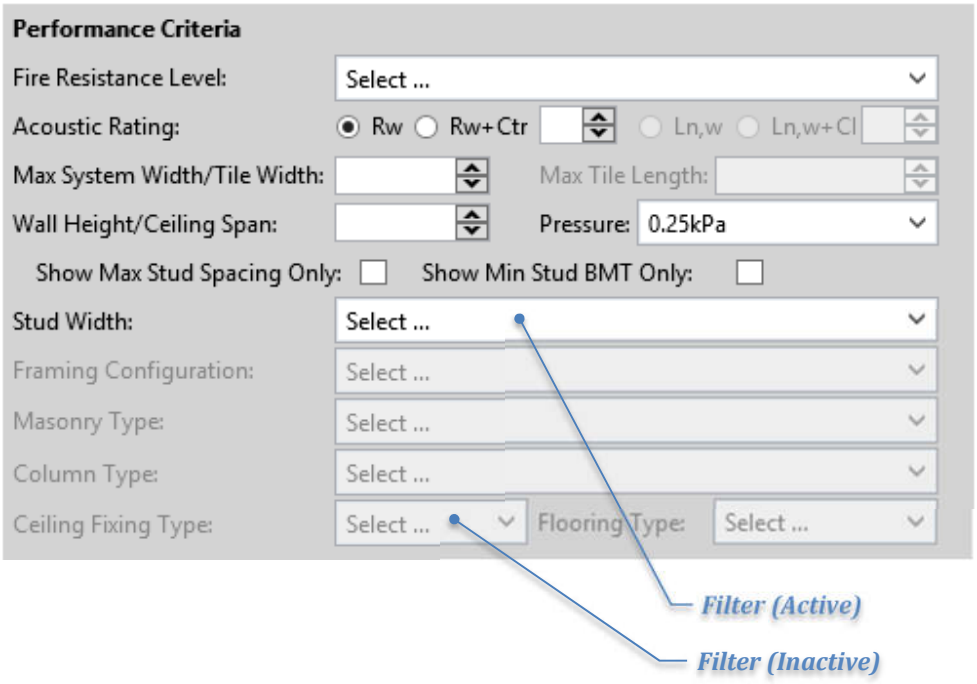
None of the filters need to be used to get basic results, but some systems won't show unless certain filters have been activated. For example:

- Most systems with special attributes, like mould resistance, won't show until the corresponding attribute box has been ticked
- Systems with insulation generally won't show until an acoustic rating has been set
- Stud arrangements show maximum spacing and minimum BMT until a wall height or ceiling span has been set

The filters are grouped into four areas; Performance Criteria, Attributes, Ancillary and Acoustic Ceiling Tiles.

2.2.1 Performance Criteria

Filters in this group define a characteristic of the overall system such as fire rating, acoustic rating or physical dimensions.



2.2.1.1 Fire Resistance Level

This filter has options for load bearing (XX/XX/XX) or non-load bearing (-/XX/XX) fire ratings. Selecting a non-load bearing option will return all fire ratings of equal or greater duration but selecting a load bearing option will return only load bearing fire ratings of equal or greater value (e.g. selecting -/60/60 will return 60/60/60 results but selecting 60/60/60 will not return -/60/60 results)

2.2.1.2 Acoustic Rating

This filter gives the option to search by either Rw or Rw+Ctr values. For some ceiling systems Ln,w and Ln,w+Cl are also searchable. Only systems with the least insulation (usually none) will show until the Acoustic Rating filter has been activated.

2.2.1.3 Max System Width/Tile Width & Max Tile Length

For acoustic ceiling tiles, these two fields set the maximum dimensions of an individual tile (e.g. 600 x 1200). For all other applicable systems, the left field sets the maximum thickness of the wall or ceiling.

2.2.1.4 Wall/Ceiling Pressure

This is for setting the pressure on a wall or spanning ceiling. Changing this filter only influences search results if the Wall Height/Ceiling Span filter is also used.

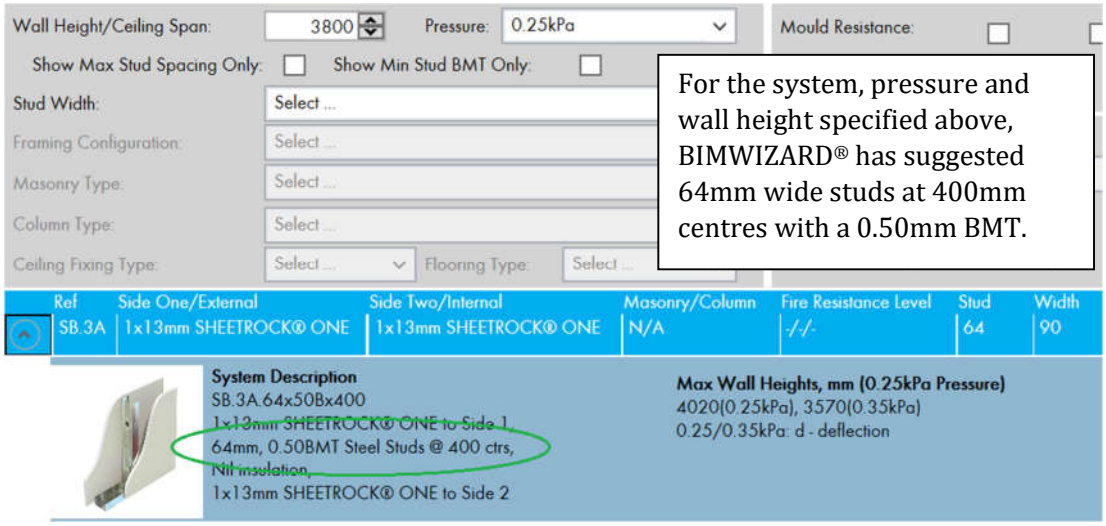
2.2.1.5 Wall Height/Ceiling Span

Entering a value into this field will adjust the spacing and/or base metal thickness (BMT) of framing members in the search results to make them structurally appropriate. Maximum heights/spans for each result can be seen in the expanded result.

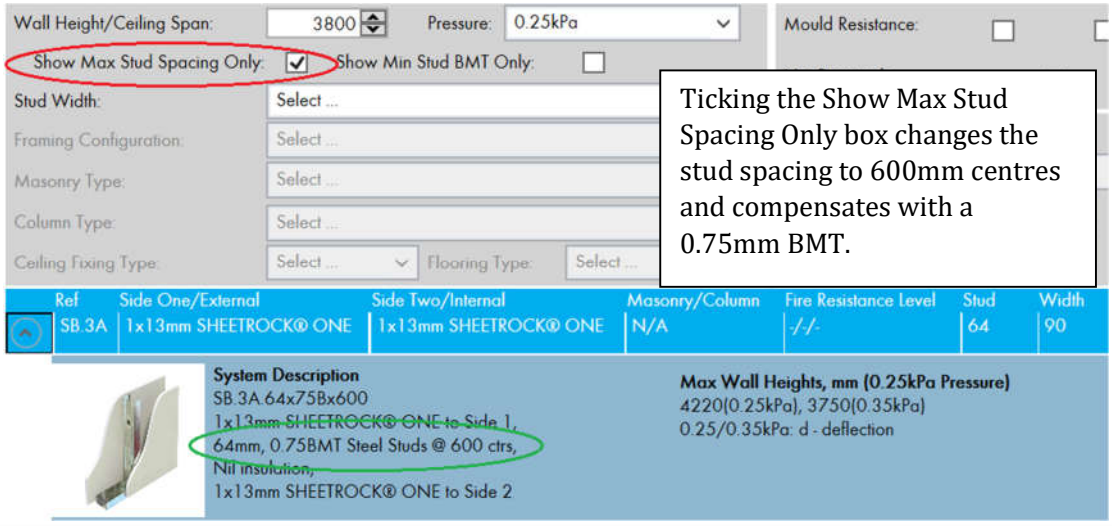
2.2.1.6 Show Max Stud Spacing Only & Show Min Stud BMT Only

Once a wall height/ceiling span value has been entered, BIMWIZARD® makes a decision for you on the most efficient framing arrangement. Should you want to see only solutions with the maximum stud spacing, you can tick the Show Max Stud Spacing Only box and if you only want solutions with the minimum BMT, you can tick the Show Min Stud BMT Only box. Refer to the example below.

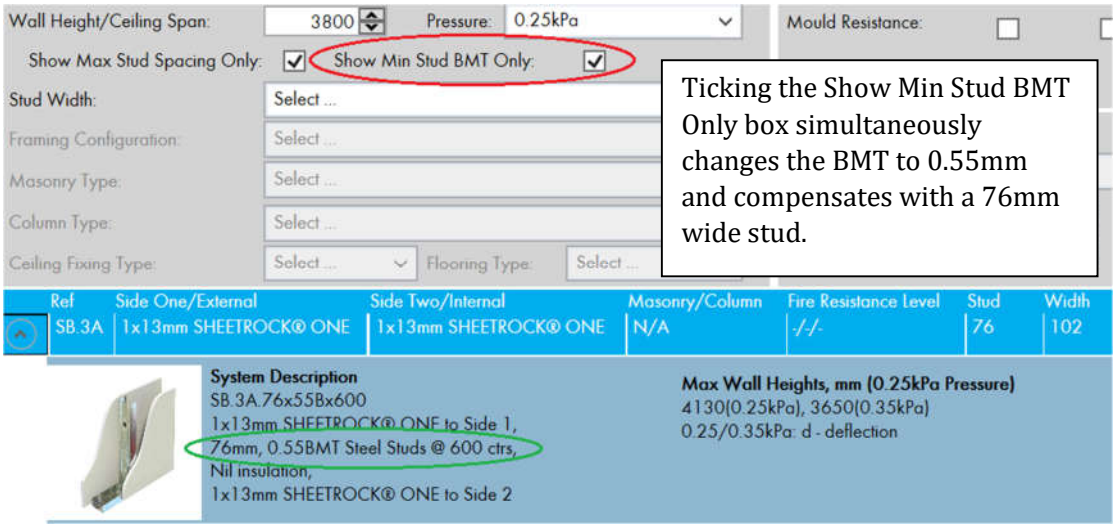
Example:



For the system, pressure and wall height specified above, BIMWIZARD® has suggested 64mm wide studs at 400mm centres with a 0.50mm BMT.



Ticking the Show Max Stud Spacing Only box changes the stud spacing to 600mm centres and compensates with a 0.75mm BMT.



Ticking the Show Min Stud BMT Only box simultaneously changes the BMT to 0.55mm and compensates with a 76mm wide stud.

2.2.1.7 Stud Width & Framing Configuration

These two menus allow for selection of systems with framing that utilises specific stud widths or layouts. Available layouts consist of combinations of independent studs, furring channels and direct fixed linings.

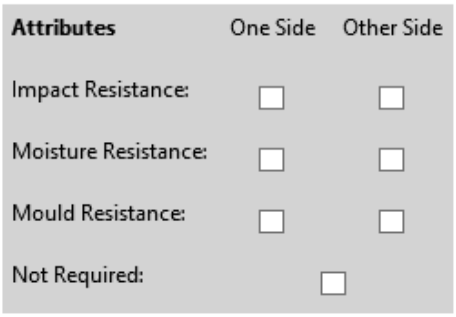
2.2.1.8 Masonry Type, Column Type, Ceiling Fixing Type & Flooring Type

These four menus allow for selection of a specific element in particular systems, namely:

- The thickness/type of masonry in masonry upgrade systems
- The type of column in column protection systems
- The type of ceiling fixing in some ceiling systems
- The type of flooring used over some ceiling systems.

2.2.2 Attributes

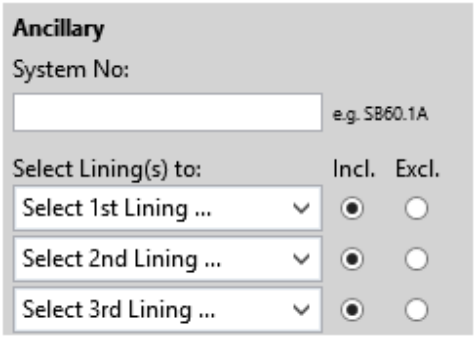
Filters in this group define a characteristic of the system lining such as impact, moisture or mould resistance attributes.



The Not Required box removes all systems with special attributes from the search results (some show by default). Some systems with impact boards provide superior acoustic performance, so it's good practice to not use this box when trying to meet acoustic criteria.

2.2.3 Ancillary

Filters in this group are used for refining search results based on Knauf system and material naming conventions.



2.2.3.1 System No.

This filter is used when searching for a specific Knauf system. A minimum of 3 characters is required to activate the filter which will return any systems that

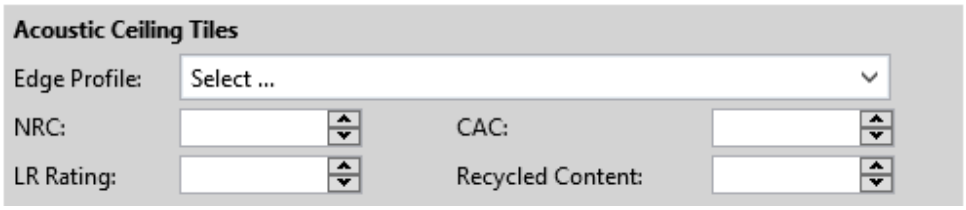
contain an exact match of the input text in their system reference (first column of the results).

2.2.3.2 *Material filters*

These filters are used when specific lining products either need to be used (select Include) or must not be used (select Exclude). Engaging multiple filters works with an AND logic (e.g. in the image below, the filter would only return systems with FireStop® AND at least one 13mm lining AND don't have 13mm MultiStop™ ONE.

2.2.4 Acoustic Ceiling Tiles

Filters in this group apply specifically to acoustic ceiling tile systems.



2.2.5 General Filter Area – Buttons and Features

Besides the filters in the three main areas there are a few other features worth mentioning in the general filter area.

2.2.5.1 *Filter Minimisation Button*

Located beside the Ceiling Type selector, this button hides the entire filtering area to display more results at one time.

2.2.5.2 *Reset All Fields Button*

Quickly clears all inputs and sets filters back to default.

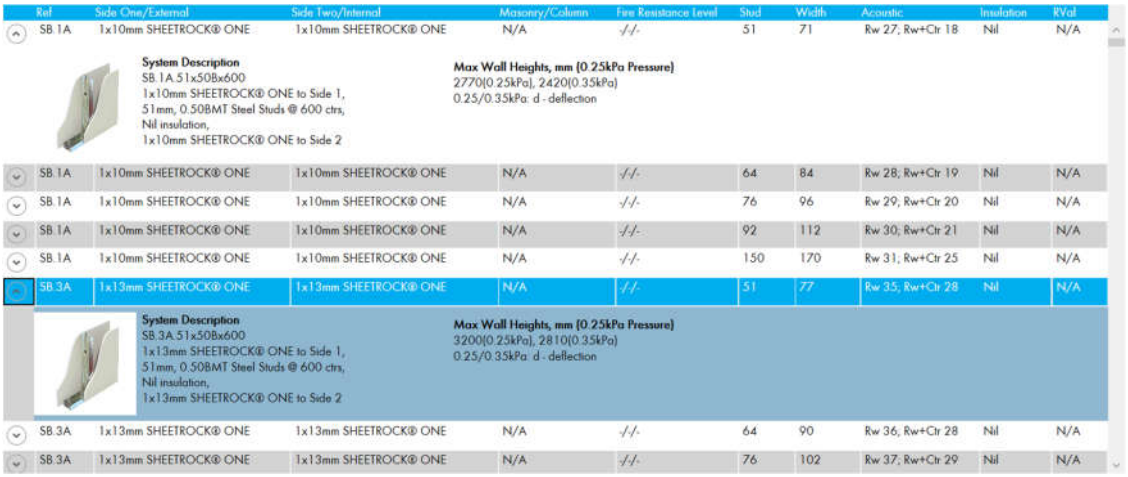
2.2.5.3 *Helpful Links*

These are web links that give quick access to various locations on the Knauf website.

2.3 Browse Results and Select Desired System

Once a wall or ceiling type has been selected, you will see this area populated with design solutions where each row represents a specific system arrangement.

- The results will update dynamically as you engage various filters
- Results at the top of the list are the most recommended solutions for your set of design requirements
- The more detail you input, the better your solutions will be.



Left click anywhere within a row to see additional information including:

- Full system number
- System description
- Maximum wall height/ceiling span
- Height limiting factors.

Right click anywhere within a row to bring up the context menu and save the selected system to a favourites folder.

Tips:

Multiple rows may be expanded simultaneously, but only the highlighted row is currently selected for saving to Revit or a folder.

2.4 Saving to Revit

Once you've found the solution you want, you're ready to generate the system and add it to your Revit library. There are two options to do this, you can Save To Revit or Draw In Revit.

2.4.1 Save To Revit

The Save To Revit button will export the selected system to Revit as a wall or ceiling family type.

- This option works better if you want to add multiple systems in one sitting.

Tips:

Since Revit is not the active window while using BIMWIZARD®, exported systems are added to a queue, then generated when Revit is made the active window again. You can check the export's progress in Revit's status bar.

2.4.2 Draw In Revit

The Draw In Revit button will minimise BIMWIZARD® and activate the Revit wall or ceiling sketch tool with the selected system so that you can place it in your project immediately.

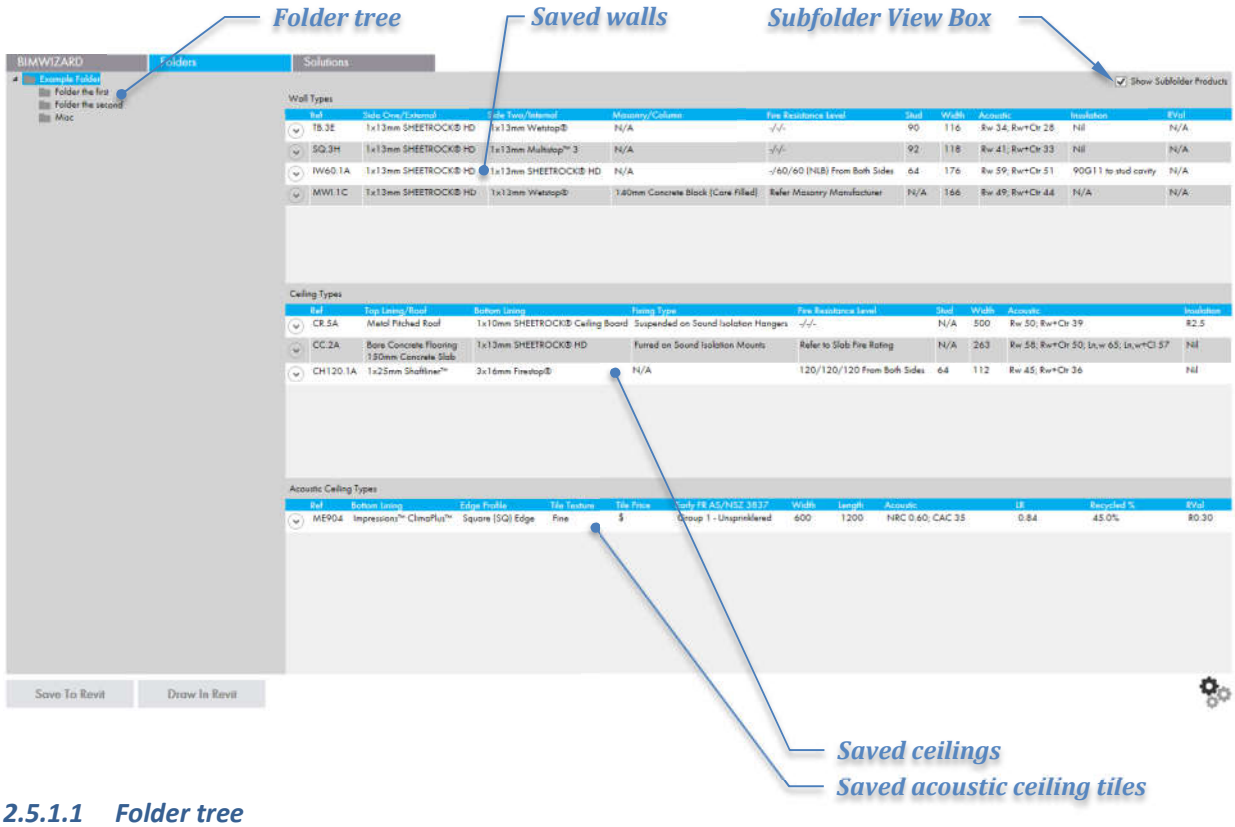
- This option works better if you only need to add a single system and don't want to search through the Revit type selector later.

2.5 Tabs

With the latest release, BIMWIZARD® has 2x new pages provided to make the design process as convenient as possible: the Folders page and the Solutions page.

2.5.1 Folders Tab

The Folders page can be accessed anytime by clicking the Folders Tab at the top of the BIMWIZARD® window. This page is used for storing and organising systems for later use. It will initially be unpopulated but systems can be added to it from the BIMWIZARD® main page or the Solutions page. The below image is an example folder structure in the folders page.



2.5.1.1 *Folder tree*

Initially, there will be a single, empty folder here but folders and subfolders can be easily added, renamed, copied or deleted using the context menu (right mouse click).

2.5.1.2 *Saved Wall, Ceiling and Acoustic Ceiling Tiles Areas*

These areas are where the saved systems of the active folder appear. The columns and rows here behave the same as in the results area of the main BIMWIZARD® page, allowing each system to be expanded and saved to Revit with the Save To Revit and Draw In Revit buttons. Entire folders can be saved to Revit at once by right clicking on the appropriate folder in the folder tree and selecting 'Save All To Revit' from the context menu.

2.5.1.3 Subfolder View Box

If this box is unticked, only systems within the selected folder will be visible in the Saved Systems areas. If the box is ticked, all systems in any subfolders (including nested subfolders) will appear as well.

2.5.2 Solutions Tab

The Solutions page can be accessed anytime by clicking the Solutions Tab at the top of the BIMWIZARD® window. The Solutions page is specifically for the early stages of design where not all the details required for detailed wall and ceiling specification might be known. The Solutions Wizard has 3 steps where minimum requirements for satisfying Building Code of Australia (BCA), Australian Standards and industry best practice are determined.

2.5.2.1 Step 1

In Step 1, the project's building class is selected. Consult the BCA for determining the appropriate building class.

2.5.2.2 Step 2

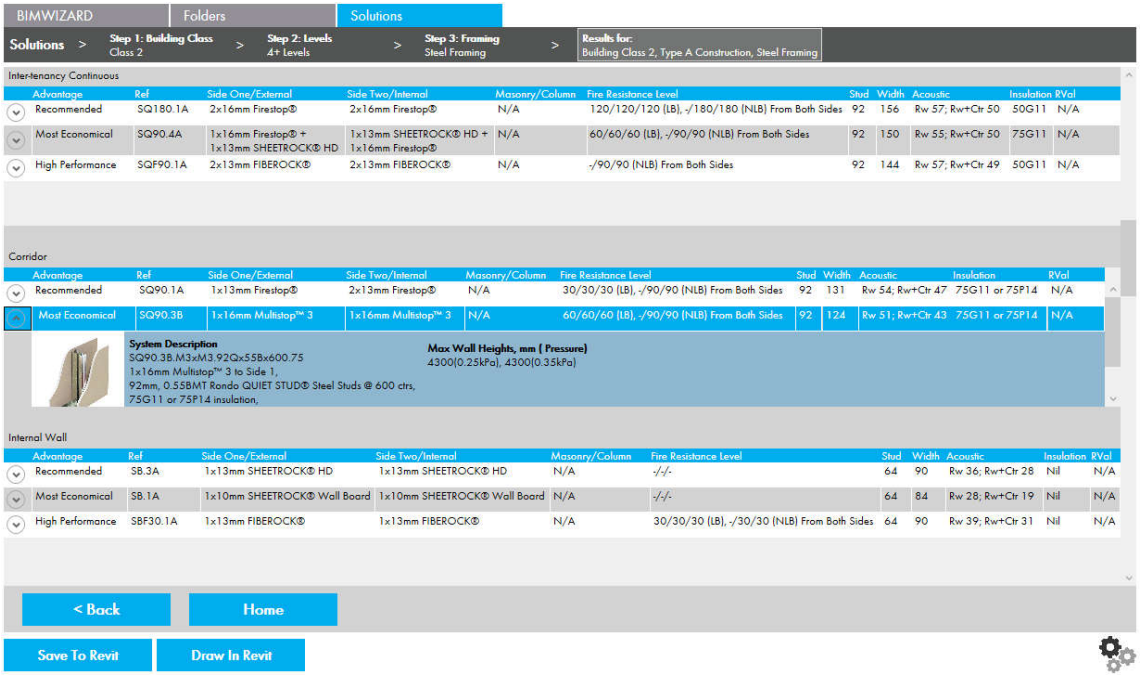
In Step 2, the project's construction type is determined based on the number of stories selected and/or the building class selected in Step 1. Do not include any stories located fully below ground. For stories located partially below ground or at the top of the building and used only for utility and lift plant purposes, consult the BCA.

2.5.2.3 Step 3

In Step 3, the project's primary framing system is identified as Steel or Timber.

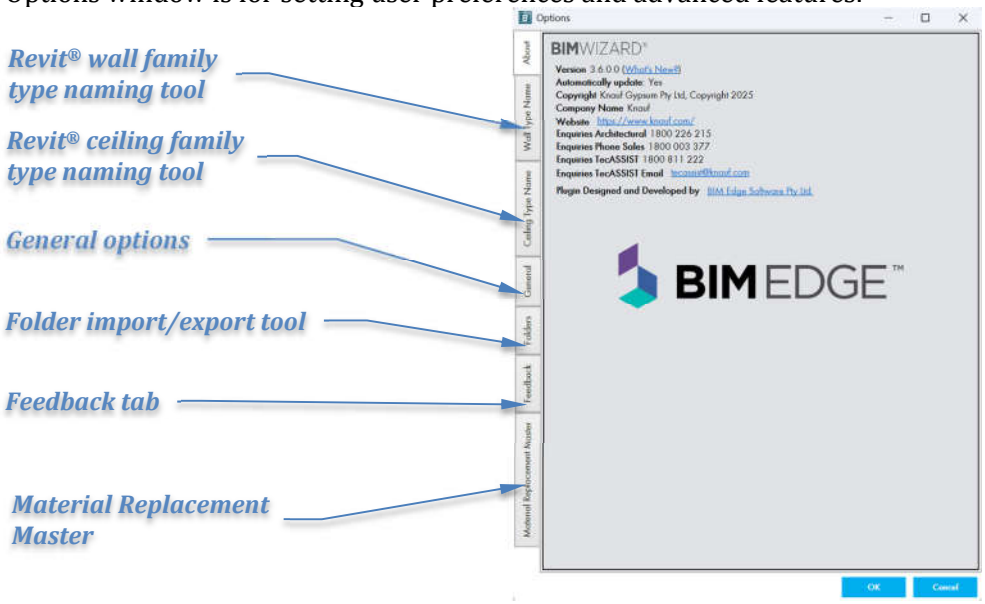
2.5.2.4 Solutions

Once all 3 steps are completed, a set of results will be displayed. Each type of system (i.e. external wall, shaft wall, spanning ceiling, etc) is given their own field of results which are further categorised by their unique advantage (i.e. most economical, high performance, etc). The columns and rows here behave the same as in the results area of the main BIMWIZARD® page, allowing each system to be expanded, saved to Revit with the Save To Revit and Draw In Revit buttons and/or saved to a folder with the context menu (right mouse click).



3 Options

The Options window is for setting user preferences and advanced features.



3.1 General Options

3.1.1 Auto-Minimise

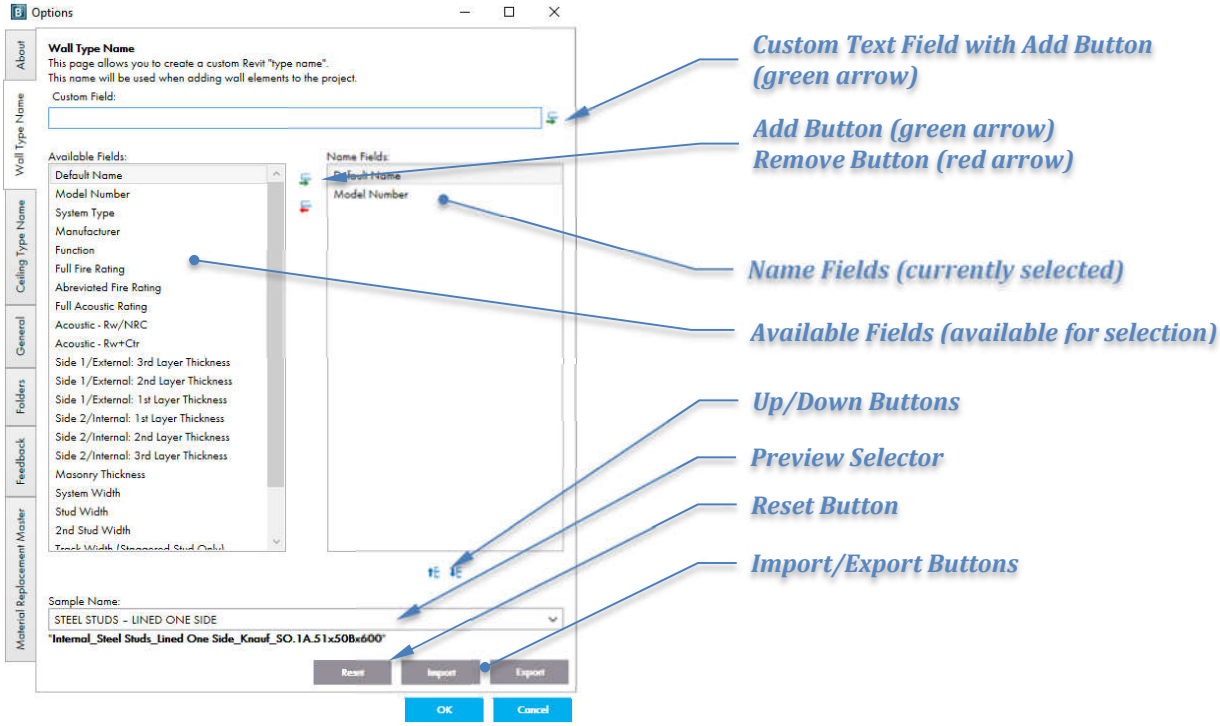
Under general options there is a check box to toggle auto-minimise. When this box is ticked, BIMWIZARD® will automatically minimise itself when the Draw In Revit button is selected.

3.2 Advanced Features

BIMWIZARD® has several auxiliary tools available to help further streamline the design and documentation process.

3.2.1 Wall/Ceiling Revit Family Naming Tools

BIMWIZARD® includes a way to automatically rename all systems it generates according to the user's preferences. There are separate tools for walls and ceilings so that they can follow different standards if required. There is also the ability to export and import the standards so they can be stored or shared. Below is an image of the wall naming tool at its default setting.



3.2.1.1 Name Fields

The values (name fields) found in this area determine how BIMWIZARD® will name generated Revit families. The default values are 'Default Name' and 'Model Number'. These 2 values, in this order, give the standard Knauf naming convention. The 'Default Name' value can be removed, but the 'Model Number' value cannot. This is to ensure every generated name is unique as BIMWIZARD® will not generate a family if one of the same name already exists. Add name fields to this area from the available and custom field areas with their respective Add buttons and remove name fields from this area with the Remove button.

Tips:

- You can identify the Default Name part of the standard Knauf naming convention by its ending text, "_Knauf_", everything after this is the system model number
- Items at the top of the Name Fields area appear first in the family type name
- Check how the current set of naming values will look in the preview text just below the preview selector

3.2.1.2 Available Fields

This area contains all the standard name values that are available to be added to the Name Fields area.

Name Field	Description	Example Value
Default Name	Beginning of standard Knauf family type name	Internal_Separating_Timber Studs_Knauf_
Model Number	End of standard Knauf family type name	ST90.2A.64x50Bx600.50
System Type	Brief description of system	Timber Staggered Studs
Manufacturer	Name of manufacturer	Knauf
Function	The basic purpose of a wall	Interior
Full Fire Rating	Load bearing and non-load bearing fire rating with direction and RISF	90/90/90 (LB), -/120/120 (NLB) From Both Sides
Abbreviated Fire Rating	Single number to represent the fire rating in minutes	120
Full Acoustic Rating	All applicable acoustic ratings	Rw 64; Rw+Ctr 57; Ln,w 54; Ln,w+CI 49
Acoustic – Rw/NRC	Single number, either Rw or NRC (if acoustic ceiling tile)	64
Acoustic – Rw+Ctr	Single number, Rw+Ctr	57
Acoustic – Lnw/CAC	Single number, either Lnw or CAC (if acoustic ceiling tile)	54
Side 1/External: 3rd Layer Thickness	Thickness in mm of third layer of lining on the first or external side of the wall	10
Side 1/External: 2nd Layer Thickness	Thickness in mm of second layer of lining on the first or external side of the wall	10
Side 1/External: 1st Layer Thickness	Thickness in mm of first layer of lining on the first or external side of the wall	10
Side 2/Internal: 1st Layer Thickness	Thickness in mm of first layer of lining on the second or internal side of the wall	10
Side 2/Internal: 2nd Layer Thickness	Thickness in mm of second layer of lining on the second or internal side of the wall	10
Side 2/Internal: 3rd Layer Thickness	Thickness in mm of third layer of lining on the second or internal side of the wall	10
Top Layer Thicknesses – All	Thickness in mm of all plasterboard layers on top of a ceiling, concatenated	1616
Bottom Layer Thicknesses – All	Thickness in mm of all plasterboard layers on bottom of a ceiling, concatenated	131313

Name Field	Description	Example Value
Masonry Thickness	Thickness in mm of system's masonry component	150
System Width/Tile Width	Width in mm of entire system (except OutRwall® where it's the system less cladding and acoustic ceiling tiles where it's the shorter side of the tile)	134
Tile Length	The longer side of a ceiling tile in mm	1200
Stud Width	The width of a system's stud in mm	92
2nd Stud Width	The width of a system's second stud in mm	92
Track Width (Staggered Stud Only)	The width of a system's track in mm, if different than the stud width	150
Stud BMT (x100)	Base Metal Thickness of a steel stud in mm, multiplied by 100	75
Structural Spacing	Spacing of primary framing members in mm	600

3.2.1.3 Custom Field

This area is used for adding text, numbers or symbols to the naming convention. This is useful for adding separators, like dashes (-) and underscores (_), or labels for values, like adding "FRL " before the Abbreviated Fire Rating field, or giving all Knauf systems a prefix such as, "Manufacturer-".

Tips:

- Any text added from the Custom Field area will appear in all systems of the same element type (wall/ceiling)
- Some available fields are not populated all the time (e.g. the 2nd & 3rd layer fields, Masonry Thickness, Track Width, etc) so take caution adding custom text before and after these fields
    - If all 3x Side 1 Layer Thickness fields are applied and separated with dashes (-) then a system with 3x layers of 13mm board will appear as "13-13-13". However, under that same naming convention a system with only 1x layer of 13mm board will appear as "--13".
- Some special characters cannot be used in the Custom Field area, these characters simply won't appear if typed or pasted into the field.

3.2.1.4 Preview Selector

Just below this drop down menu is a text string which gives a basic preview of what the current naming convention (determined by the contents and order of the Name Fields area) will look like for the selected system. Choosing a different system will update the preview below. Please note this menu does not change the naming convention in any way.

3.2.1.5 Reset Button

This button will reset the current naming tab to its default settings. This means BIMWIZARD® will resume using the standard Knauf naming convention. The Reset button only affects one tab at a time, so resetting the Wall Type Name tab will not affect any custom Ceiling Type convention and vice versa.

3.2.1.6 Import/Export Buttons

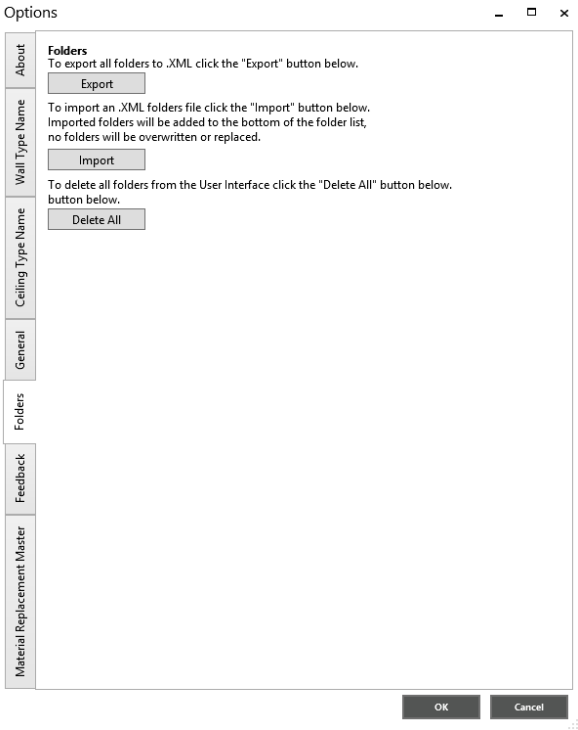
These buttons can be used to export the current custom naming convention as a .BIM file. This file can be imported again later by any BIMWIZARD® user.

Tips:

- This can be a handy method of establishing an organisation family type naming standard for all utilised Knauf systems
- Multiple naming standards can be exported and archived
- Wall and Ceiling standards import/export separately

3.2.2 Folder Utilities

The buttons in this area can be used to export the current Folders page folder tree and included systems to an .XML file. This file can be imported again later by any BIMWIZARD® user. Also there is the Delete All button which clears the Folders page back to its empty, default state.



Tips:

- Easy to relocate folders if working on multiple devices
- Send project folders to colleagues
- Archive folders when a project is finished
- Set a folder standard for an organization

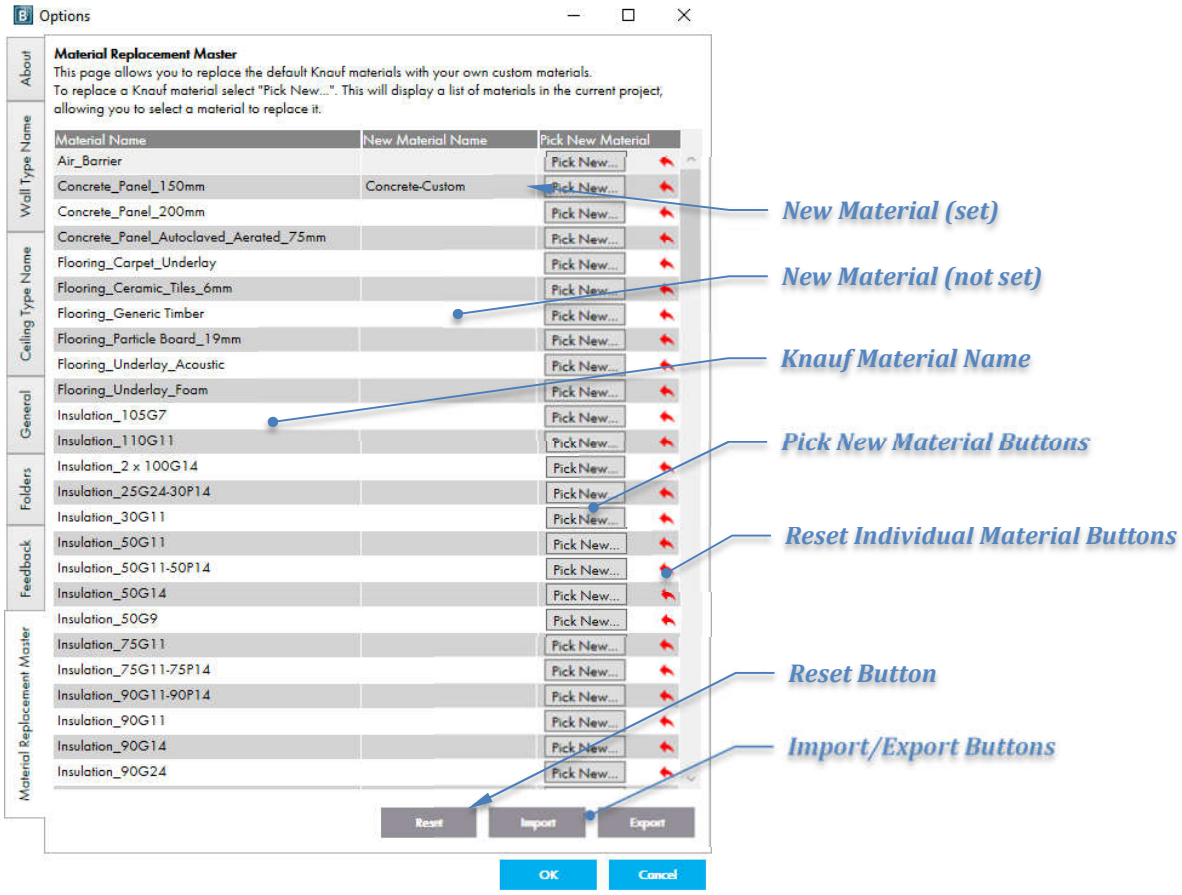
3.2.3 Feedback Tab

This area is for sending feedback to the BIMWIZARD® developers. All feedback is carefully considered and incorporated into future development plans wherever possible. The form can be sent without filling out all fields, but the more information we receive, the more valuable the feedback is.

If you wish to be contacted by the development team via email, you can include your contact details in field 5 along with your question/concern. Your details will be handled in accordance with Knauf's privacy policy https://s7g10.scene7.com/is/content/knauf/AU-GY-Knauf-Privacy-Policypdf. Response times will vary, but we endeavour to answer all enquiries in a reasonable time frame. If you require more timely assistance, please contact TecAssist at 1800 811 822, TecAssist@knauf.com.

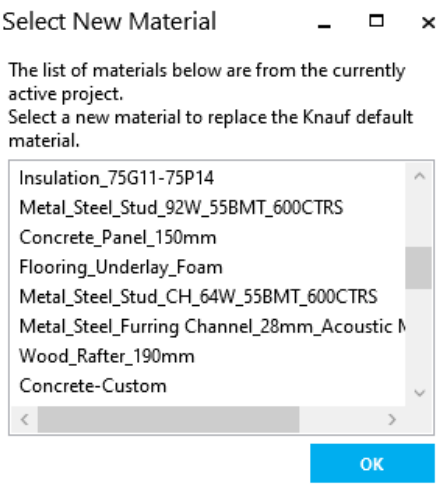
3.2.4 Material Replacement Master Tab

This tab is for indicating which Knauf generic materials you would like to be replaced when generating new family types with BIMWIZARD® and what material in your open project you want to replace them with.



3.2.4.1 *Using the Material Replacement Master Tab*

To set a replacement material, click the Pick New… button in the Pick New Material column corresponding to the Knauf material you want to replace. A new window will appear with a list of every material found in the active Revit project. Simply select one and click OK.



3.2.4.2 Reset Individual Material Buttons

Use these buttons to clear the previously selected New Material from a specific row.

3.2.4.3 Reset Button

Use this button to clear all previously selected New Materials from the New Material Name column.

3.2.4.4 Import/Export Buttons

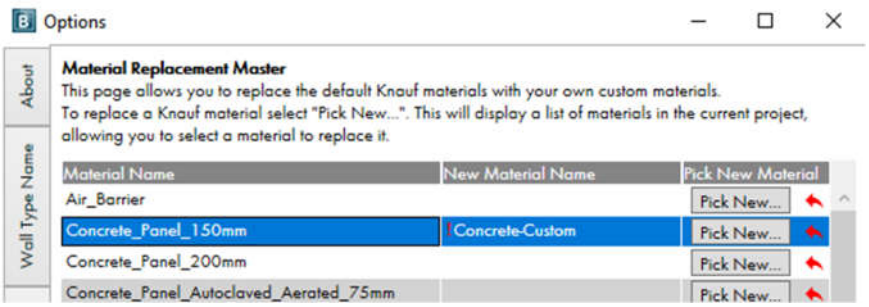
These buttons can be used to export the current replacement materials assignment as a .JSON file. This file can be imported again later by any BIMWIZARD® user.

Tips:

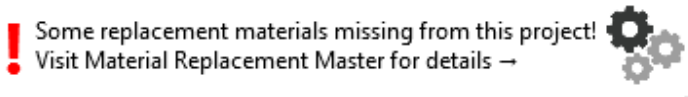
- This can be a handy method of establishing an organisation material replacement standard for all utilised Knauf systems
- Multiple material replacement schedules can be exported and archived

NOTE: BIMWIZARD® cannot move your Revit® materials between projects!

If a chosen replacement material is not found in the active Revit project, an exclamation mark will appear next to the New Material Name to indicate this. When a system containing this material is generated, it will use the default Knauf material instead of the replacement. To fix the problem, import the missing material into the active project, making sure the name is exactly the same as in the New Material Name field.



A warning will also appear in the main BIMWIZARD® window if there are any missing replacement materials.



4 Customisation

Once placed within a Revit® project, changes to Knauf systems are not recommended. Changes to the wall structure may void the fire rating, acoustic rating and/or a handful of other parameters associated with the system. It is always safer to return to the BIMWIZARD® interface, find the correct system and replace the incorrect one.

NOTE: there are elements that can be changed after family type generation without voiding the system information. Some of these elements are listed below:

- Revit Family Type name – This is only a suggested naming convention and can be replaced by your own without losing any information.
- Lining location on asymmetric systems – Some wall types have internal structures that are asymmetrical and different linings on either side. With these systems, it may occur that you want to switch the side of the wall that the linings are on (e.g. a masonry upgrade system might have studs and Sheetrock® on one side but furring channels and WetStop® on the other, but you want the WetStop® on the stud side instead). You may swap the linings (unless acoustic notes specify otherwise) but take care not to alter the number of layers or thickness of either lining. It's easier to keep the material layers intact and use the 'Up' and 'Down' buttons rather than delete, replace or modify the layers.
- Material aesthetics – You may change the graphics and appearance of materials to suit your project style. However, it is not recommended to change the surface grid pattern on acoustic ceiling tile materials.
- Generic materials – Many of our systems contain generic materials that we do not manufacture such as cladding or flooring. You may swap these out for your own materials so long as they match the description given and meet or exceed any specified requirements.